Water-Quality Daily Data

What are Daily Data?

Daily data are derived by summarizing time-series data for each day for the period of record. The time-series data used to derive daily values, sometimes referred to as real-time or instantaneous values may be collected as often as every minute. These data are used to calculate daily data, such as the daily mean, median, maximum, minimum, and/or other derived values. Daily data include approved, quality-assured data that may be published, and provisional data, whose accuracy has not been verified.

General steps to retrieve Water-Quality Daily Data

Retrieving daily data is a multi-step process. The general steps are summarized here. These steps permit users to control the amount and types of data that are retrieved. A more detailed example and explanation follows.

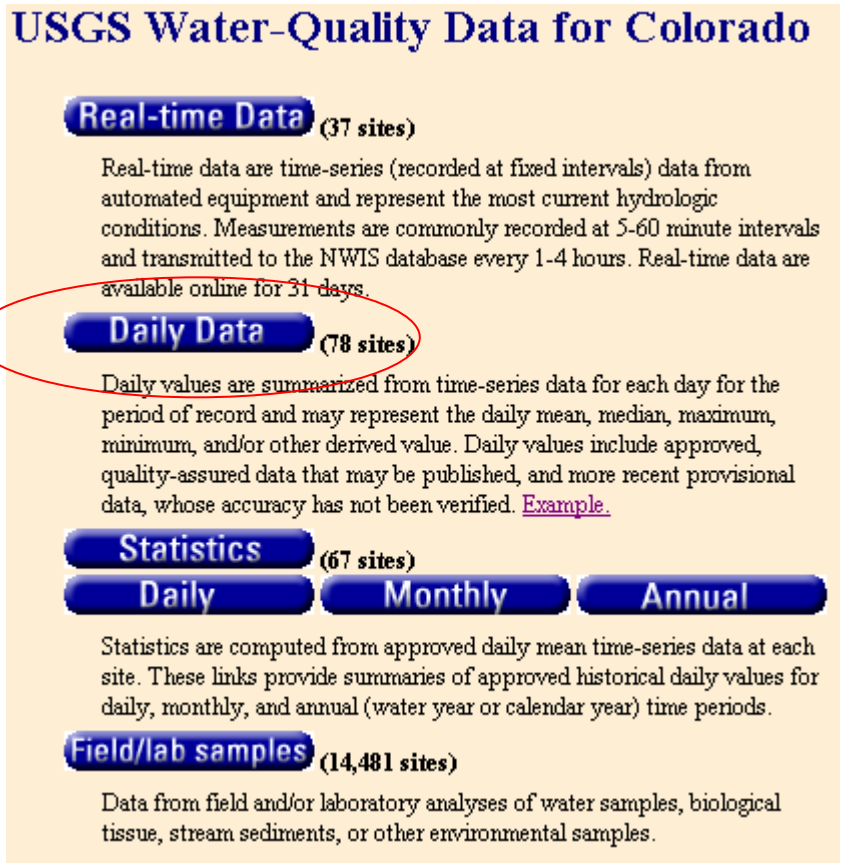
1. **Choose Site Selection Criteria –** Identify the site-selection criteria that will be used to search for sites; for example, to obtain a particular Site type and County, check the Site type and County boxes.

2. **Define the specific Site Selection Criteria –** Define specific choices for site selection criteria. For example, if “County” were selected as a criterion, specify the desired county name(s).

3. **Choose the Output format –** Output options include either summaries or actual data for selected sites.

Example: Retrieval for Water-Quality Daily Data

To begin, click the **Daily Data** button from the Water-Quality screen. For this example, Colorado Water-Quality data is used.



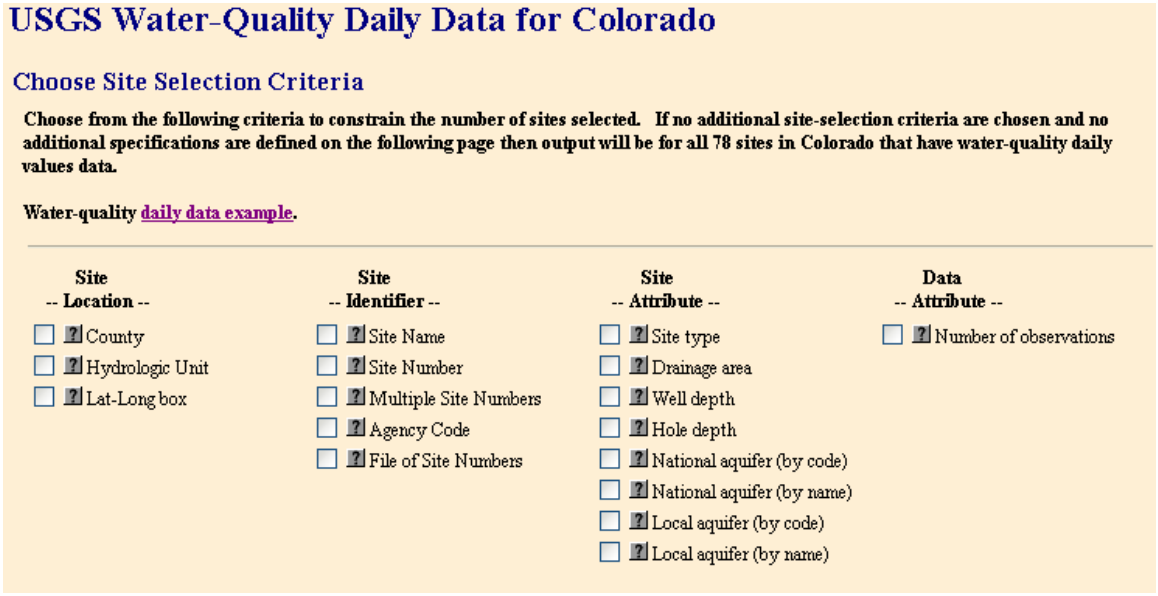
The number of possible sites for the data category is listed in parentheses to the right of the data category button.

Water quality samples are collected at several site types, such as surface water or ground water. For the water quality data category, the number represents sites where water quality data parameters are available.

Step 1 - Choose Site Selection Criteria

Step 1 involves choosing the criteria for Site Selection. Select one or more boxes from the four categories: Site Location, Site Identifier, Site Attribute, and Data Attribute.

In the next step, specific site selection criteria are defined. Water-quality data may be available at all site-types. In this example, nothing is selected from the site selection criteria. Water quality parameters can be specified later.



USGS Water-Quality Daily Data for Colorado

Choose Site Selection Criteria

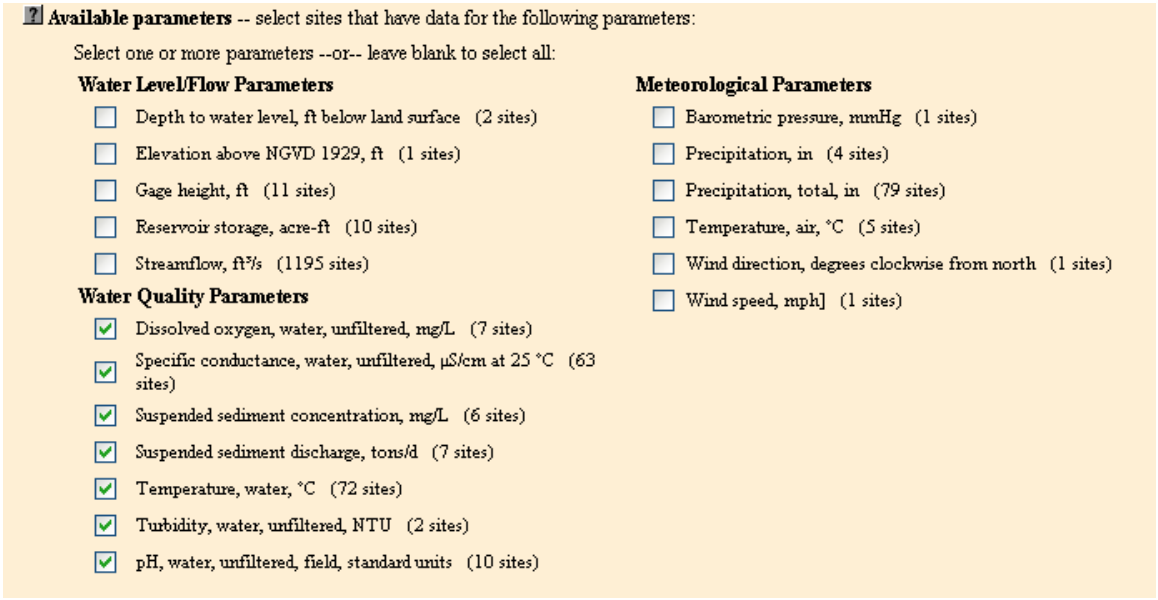
Choose from the following criteria to constrain the number of sites selected. If no additional site-selection criteria are chosen and no additional specifications are defined on the following page then output will be for all 78 sites in Colorado that have water-quality daily values data.

Water-quality daily data example.

Site -- Location --	Site -- Identifier --	Site -- Attribute --	Data -- Attribute --
☐ County	☐ Site Name	☐ Site type	☐ Number of observations
☐ Hydrologic Unit	☐ Site Number	☐ Drainage area	
☐ Lat-Long box	☐ Multiple Site Numbers	☐ Well depth	
	☐ Agency Code	☐ Hole depth	
	☐ File of Site Numbers	☐ National aquifer (by code)	
		☐ National aquifer (by name)	
		☐ Local aquifer (by code)	
		☐ Local aquifer (by name)	

Step 2 - Define the specific Site Selection Criteria

For Step 2, select the water quality parameters of interest, or select nothing and all sites with water quality data will be retrieved.



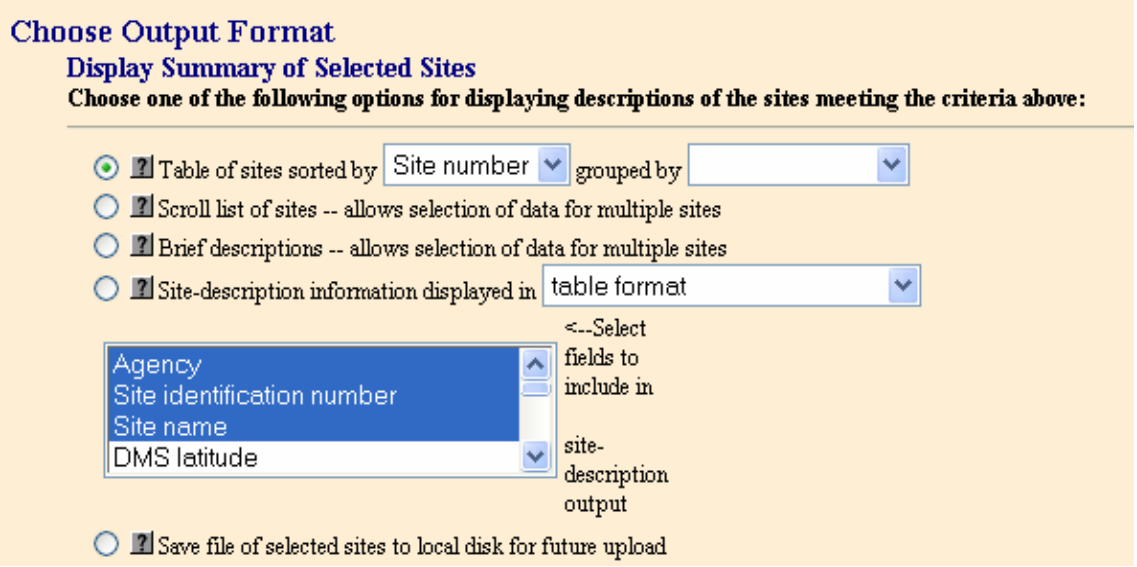
Specification of daily data parameters is an option that provides a more advanced search. In this example, all water quality parameters are selected.

Important: All **Available parameters** for daily data are listed by default. Not all parameters are available for all sites. When a specific site has been selected, the available parameters will be shown.

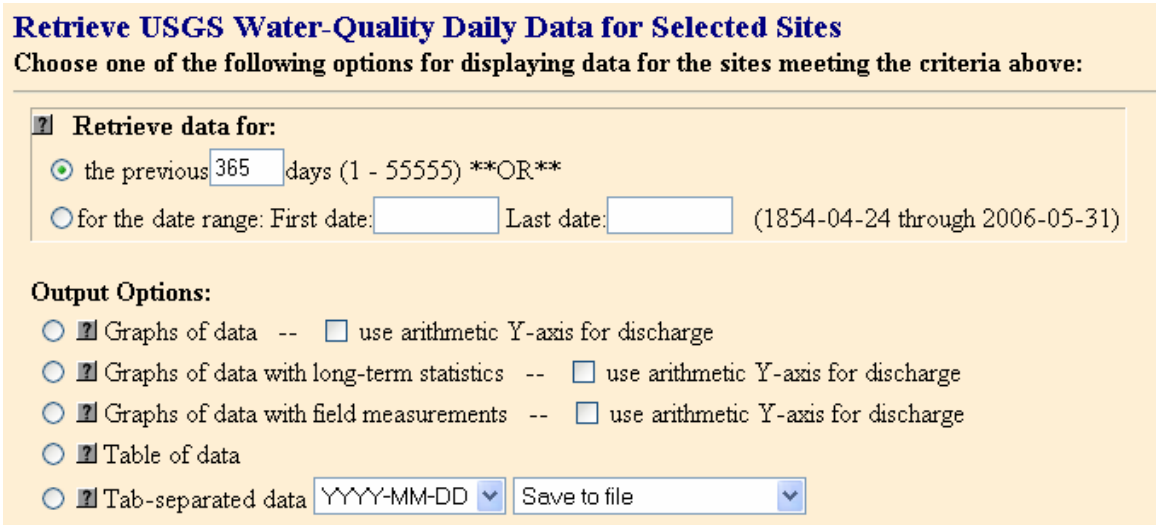
Step 3 – Choose the Output format

Choose from one of the two output options.

The first set of options, **Display Summary of Selected Sites,** provides lists of sites or descriptive site information.



The second set of options, **Retrieve USGS Water Quality Daily Data for Selected Sites,** provides tables or graphs of data.



In this example, the defaults are used and a table of sites sorted by site number is produced. When a site is selected, data for the last 365 days are retrieved.

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Site Selection Results -- 78 sites found

Parameter codes = 00300, 00095, 00076, 80154, 00010, 00400, 80155

Save file of selected sites to local disk for future upload

Data for individual sites can be obtained by selecting the site number below

Agency	Site Number	Site Name
USGS	06619400	CANADIAN RIVER NEAR LINDLAND, CO.
USGS	06619450	CANADIAN RIVER NEAR BROWNLEE, CO.
USGS	06704500	DUCK CREEK NEAR GRANT COLORADO
USGS	06705500	GENEVA CREEK AT GRANT, CO.
USGS	06710000	SOUTH PLATTE RIVER AT LITTLETON, CO.
USGS	06711565	SOUTH PLATTE RIVER AT ENGLEWOOD, CO.
USGS	06713500	CHERRY CREEK AT DENVER, CO.
USGS	06714400	SOUTH CLEAR CREEK ABV LOWER CABIN CREEK RESERVOIR
USGS	06714600	SOUTH CLEAR CRK ABV LEAVENWORTH CRK NR GEORGETWN.
USGS	06714800	LEAVENWORTH CREEK @ MOUTH NR GEORGETOWN, CO
USGS	06719505	CLEAR CREEK AT GOLDEN, CO.

When a site is selected, the result is a list of available parameters and graphs of the data. The graph for specific conductance is shown as an example. Output formats and the data retrieval period can be changed using features in the yellow box.

USGS 06711565 SOUTH PLATTE RIVER AT ENGLEWOOD, CO.

PROVISIONAL DATA SUBJECT TO REVISION

Available data for this site | Time-series: Daily data | GO

Station operated by the U.S. Geological Survey in cooperation with City of Englewood.

Additional station information.
Current shift adjusted stage-discharge rating table. These tab delimited tables are updated daily.
What is a shift adjusted stage-discharge rating?
This station managed by the Lakewood Field Office.

	Available Parameters	Period of Record	
☐	All 5 Available Parameters for this site		
☑	00060 Discharge (Mean)	1983-02-01	2006-05-26
☑	00010 Temperature, water (Max.,Min.)	1995-10-01	2006-05-26
☑	00095 Specific cond at 25C (Mean)	1996-10-01	2006-05-26
☑	00300 Dissolved oxygen (Max.,Min.)	1996-10-23	2006-05-26
☑	00400 pH (Max.,Min.)	1996-10-01	2006-05-26

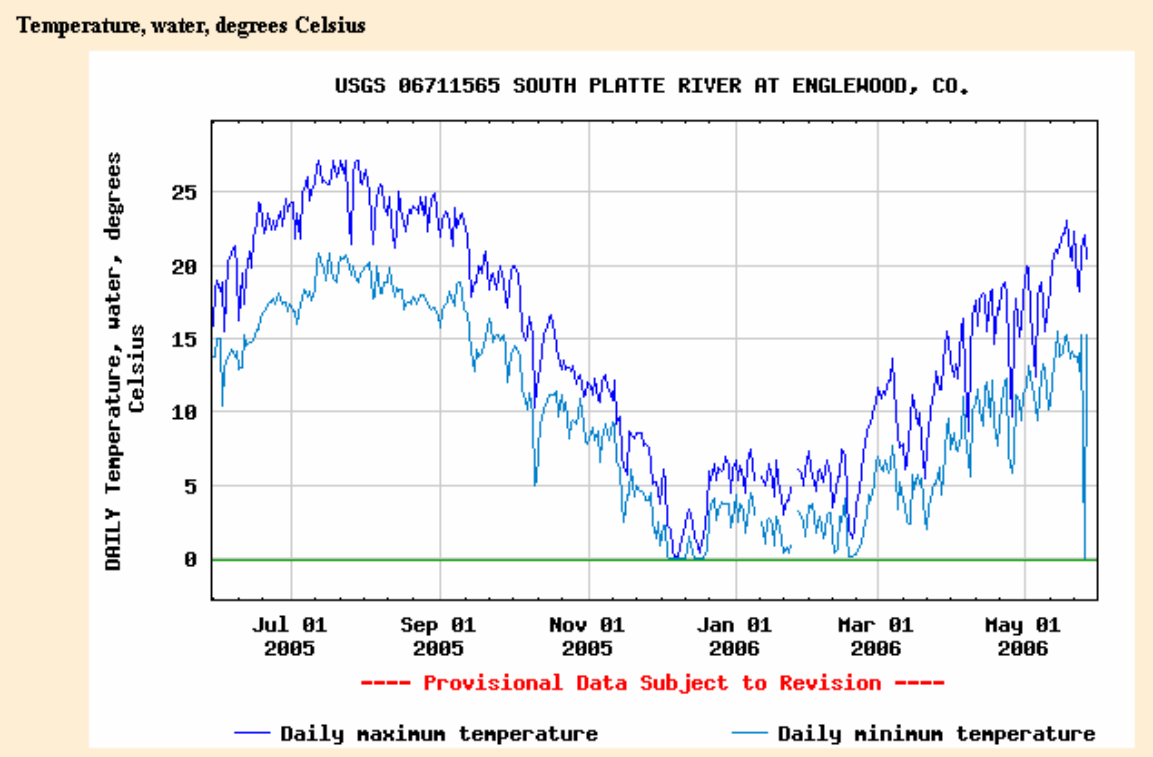
Output format: Graph

Begin date: 2005-05-29

End date: 2006-05-29

GO

A thermograph of water temperature is shown for the South Platte River at Englewood, CO.



Another useful output format is the **Graph w/stats** option which shows the median daily temperature plotted with daily maximum and minimum temperature.